FAX:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

CopyB# 11

In Re Application of:)
Hirst, et al.) Group Art Unit: 2852
Serial No.: 09/819,925	Examiner: Tran, Hoan H.
Filed: March 28, 2001) Docket No.: 10004411-1
For: Fusing System Including an External Heater	.)
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450, on	
Signature - Mary Meegan	- -
n-p-mint - ister is is in the contract of the	

DECLARATION OF B. MARK HIRST PURSUANT TO 37 C.F.R. §1.131

Commissioner of Patents Washington, D.C. 20231

Sir,

I, B. Mark Hirst, hereby declare that:

- The invention embodied in the above-identified patent application is directed 1) to fusing systems and devices that incorporate such fusing systems.
- 2) I am advised that the United States Patent and Trademark Office has rejected one or more claims presently pending in the above-identified patent application based, at least in part, upon United States Patent No. 6,463,250 to Chen et al. ("Chen '250"). I am further advised that the effective filing date of the Chen '250 patent is October 4, 2000.
- 3) The invention, however, as embodied in the claims of the present invention was completed by myself and my co-inventors in this country prior to October 4, 2000. Specifically,

the invention was "completed" by virtue of reduction to practice prior to the October 4, 2000 filing date of the Chen '250 patent.

- 4) As evidence that the present invention was so characterized by reduction to practice, Exhibit "A" is attached hereto.
- 5) Exhibit "A" is a copy of notebook entries from my notebook number 4276. As indicated on pages 37-42 of this notebook, an embodiment of the claimed invention was made and tested with positive results. All of these activities occurred prior to the October 4, 2000 critical date. Note that all dates contained on pages 37-42 have been redacted.

I hereby declare that all statements made herein are of my own knowledge are true and that all statements are made on information and belief and are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

in 3, 2003

B. Mark Hirst

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in Re Application of:)
Hirst, et al.) Group Art Unit: 2852
Serial No.: 09/819,925) Examiner: Tran, Hoan H.
Filed: March 28, 2001) Docket No.: 10004411-1
For: Fusing System Including an External Heater)
hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450, on	
- Ana marker for	
Signature – Mary Meegan	

DECLARATION OF KENNETH E. HEATH PURSUANT TO 37 C.F.R. §1.131

Commissioner of Patents Washington, D.C. 20231

Sir,

I, Kenneth E. Heath, hereby declare that:

- The invention embodied in the above-identified patent application is directed to fusing systems and devices that incorporate such fusing systems.
- 2) I am advised that the United States Patent and Trademark Office has rejected one or more claims presently pending in the above-identified patent application based, at least in part, upon United States Patent No. 6,463,250 to Chen et al. ("Chen '250"). I am further advised that the effective filing date of the Chen '250 patent is October 4, 2000.
- 3) The invention, however, as embodied in the claims of the present invention was completed by myself and my co-inventors in this country prior to October 4, 2000. Specifically,

the invention was "completed" by virtue of reduction to practice prior to the October 4, 2000 filing date of the Chen '250 patent.

- 4) As evidence that the present invention was so characterized by reduction to practice, Exhibit "A" is attached hereto.
- 5) Exhibit "A" is a copy of notebook entries from Mark Hirst's notebook number 4276. As indicated on pages 37-42 of this notebook, an embodiment of the claimed invention was made and tested with positive results. All of these activities occurred prior to the October 4, 2000 critical date. Note that all dates contained on pages 37-42 have been redacted.

I hereby declare that all statements made herein are of my own knowledge are true and that all statements are made on information and belief and are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

7-7-03 Kenneth & Death

AX:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

in Re Application of:)
Hirst, et al.) Group Art Unit: 2852
Serial No.: 09/819,925	Examiner: Tran, Hoan H.
Filed: March 28, 2001) Docket No.: 10004411-1
For: Fusing System Including an External Heater)
hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450, on	
Mary M. es que	•
Signature – Mary Meegan	

DECLARATION OF MARK WIBBELS PURSUANT TO 37 C.F.R. §1.131

Commissioner of Patents Washington, D.C. 20231

Sir,

I, Mark Wibbels, hereby declare that:

- 1) The invention embodied in the above-identified patent application is directed to fusing systems and devices that incorporate such fusing systems.
- 2) I am advised that the United States Patent and Trademark Office has rejected one or more claims presently pending in the above-identified patent application based, at least in part, upon United States Patent No. 6,463,250 to Chen et al. ("Chen '250"). I am further advised that the effective filing date of the Chen '250 patent is October 4, 2000.
- 3) The invention, however, as embodied in the claims of the present invention was completed by myself and my co-inventors in this country prior to October 4, 2000. Specifically,

the invention was "completed" by virtue of reduction to practice prior to the October 4, 2000 filing date of the Chen '250 patent.

- 4) As evidence that the present invention was so characterized by reduction to practice, Exhibit "A" is attached hereto.
- 5) Exhibit "A" is a copy of notebook entries from Mark Hirst's notebook number 4276. As indicated on pages 37-42 of this notebook, an embodiment of the claimed invention was made and tested with positive results. All of these activities occurred prior to the October 4, 2000 critical date. Note that all dates contained on pages 37-42 have been redacted.

100 A

I hereby declare that all statements made herein are of my own knowledge are true and that all statements are made on information and belief and are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

From Page No. Present two roller Susing systems at live a luminum rallers which are typically collected by a thick lager (4mm) of silisan rubber to maximate the width at the night area for improved suring. The silisan rubber is at thremal conductor which results in a Susing system which requires an excessive omount of time to bring the working temperature. For example, the MP 5500 loser printer esquires 4 minutes a 20 seconds to a chrive a working temperature at 180% with two brated rollers can heated by 595 Walt quarte lamps Using an external heated met roller aliminates a great parties of the thermal time delay in the sys. This system system was prototyped with 2 595 heater lamps: This system system was prototyped with 2 595 heater lamps: Jave pressure roller Jave prototyped with 2 595 heater lamps: Jave pressure roller Jave prototyped with 2 595 heater lamps: Jave pressure roller Jave prototyped with 2 595 heater lamps: Jave pressure roller Jave pressure Jave pressure policy pressure Jave pre	EXHIBIT "A" Project No
Present two roller. Susing systems at like Aluminum rollers which are typically collected by a thick byer (4mm) of silisan rubber to maximize the width of the nip area for improved Susing. The silicon rubber is us thermal conductor which results in a Jusing system which requires an excessive omount of time to bring to working temperature. For example, the HP \$500 loser printer requires 4 minutes & 20 seconds to a chaive a working temperature as 180°s with two heated rollers cae heated by 595 Vatt quarte lamps. Wing an external heated met roller climinales a gestal portion of the thermal time delay in the sys This Sollowing system was protatoped with 2 595 heater lamps: This Sollowing system was protatoped with 2 595 heater lamps: Sollicon subset Joseph pressure roller (unheated) This system system of pressure roller (unheated) This system system was a lamber to 2 minutes of records 500 To Page No. Wingspeed Statustyphologyma. Date Invented that Maximilian of the page No.	TITLE Fusing System a resternal heating roller Bo No.
typically collect by a thick layer (4mm) of silican rubber to masimize the width at the nife area for improved Susing. The silican rubber is a structural that we shall be silican rubber is a structural canductor which results in a Susing system which requires an excessive amount of time to bring tan working temperature as system from 33%. A chaive a warking temperature as 180°C with two heated rollers can heated by 595 but quartz lamps. Asing an external heated met roller seliminates a great portion of the thermal time delay in the system that system was prototyped with a 595 heater lamps: The following system was prototyped with a 595 heater lamps: Silicon subber Jower pressure roller	
typically collect by a thick layer (4mm) of silican rubber to masimize the width at the nife area for improved Susing. The silican rubber is a structural that we shall be silican rubber is a structural canductor which results in a Susing system which requires an excessive amount of time to bring tan working temperature as system from 33%. A chaive a warking temperature as 180°C with two heated rollers can heated by 595 but quartz lamps. Asing an external heated met roller seliminates a great portion of the thermal time delay in the system that system was prototyped with a 595 heater lamps: The following system was prototyped with a 595 heater lamps: Silicon subber Jower pressure roller	Present two roller susing systems utilize aluminum rallers which are
the width of the nip area for improved Susing. The silicon rubber is a stronger of the silicon rubber is a stronger conductor which results in a Susing system which requires an excessive amount of time to bring to working temperature for example, the HP \$500 loser printer requires 4 minutes a 20 seconds to a chaive a working temperature as 180°C with two heated rollers can heated by 595 Watt quartz lamps (strong an external heated met roller aliminates a great portion of the thermal time delay in the sys. The following system was prototyped with 2 595 heater lamps: The following system was prototyped with 2 595 heater lamps: aluminum or steel with teston costing heater heater to silve the system costing appet pressure to silve making roller. This system significant warmap time to 2 minutes for seconds for 22°C to 100°C. Unspected by the system of polaried warmap time to 2 minutes for seconds for 10 page No. Witappace of beautyphalysmo. Date invenied by the workshop was.	
as throwal conductor which results in a Sessing system which requires an excessive amount of time to bring to working temperature for example, the NP \$500 laser printer requires 4 minutes 1 20 seconds to synting some 33°C. a chrive a working temperature 05 180°C with two heated rollers cae heated by 595 Watt guartz lamps. Using an external heated met roller climinates a great portion of the thermal time delay in the sys. The solowing system was pretatyped with 2 595 heater lamps: The solowing system was pretatyped with 2 595 heater lamps: aluminum or steel with tislem coating forthe heater Quartic pressure This system fighted worman time to 2 minutes of seconds Sri parcy to the property of the pressure roller. (un heated) This system fighted worman time to 2 minutes of seconds Sri To Page No. Wingspace of beginning to the common to the system of the page No.	The state of the s
requires an excessive amount of time to bring to working temperature for example, the HP & SDD loser printer requires 4 minutes a 20 seconds to sporting time 23xc. a chaire a working temperature of 180°C with two heated rollers can heated by 595 Watt guart lamps. Using an external heated met roller climinates a great portion of the thermal time delay in the sys. The following system was protetyped with 2 595 heater lamps: The following system was protetyped with 2 595 heater lamps: aluminum or steel with resum coating force of the pressure to the system coating solver greats to the pressure roller. This system followed warmap time to 2 minutes proceeds 517 To Page No. Wingspace of System states. Date Invented by the system of place invented by the system of page No.	
For example, the HP \$500 loser printer requires 4 minutes is 20 seconds to sporting 5-m 23°C. a chaire a working temperature of 180°C with two heated rollers can heated by 595 Watt quarte lomps. Using an external heated met roller eliminates a great portion of the thermal time delay in the sys. This following system was prototyped with a 595 heater lamps: This following system was prototyped with a 595 heater lamps: aluminum or steel with tellow costing forms for pressure roller. Another foressure roller. This system syclused warm up time to 2 minutes by records 500 minutes to precords. This system syclused warm up time to 2 minutes by records. The page No. Wingegoed of Study of the page of the page No. Invented by the time to 2 minutes by records.	
A chaive a working temperature as 180°C with two heated rollers can heated by 595 Watt guartz lamps. Using an external heated met roller sliminates a great portion of the thermal time delay in the sys. The following system was prototyped with 2 595 heater lamps: The following system was prototyped with 2 595 heater lamps: aluminum or steel with teston cooting heater gunts heater 50 heater of heating roller gunts heater 50 heater of silicon rubber This system syclused warmap time to 2 minutes & records from a 2 cc. to 160 fc. Wingegod & heater specially mo, Date Invented by the thing the state of the sta	- For example, the HP 8500 loser printer requires 4 minutes + 20 seconds to
The Sollowing System was protestyped with 2 595 heater lamps: The Sollowing System was protestyped with 2 595 heater lamps: aluminum or steel with testem coating 595 Halter O heating roller quette heater Quette heater O Silicon cubber This system sould ced warmap time to a minute specords Sri 23°C to Mote Witnessed & Audit O hate invented by the the Date	a chaire a working temperature of 180°C with two heated rollers can
The Sollowing System was protestyped with 2 595 heater lamps: The Sollowing System was protestyped with 2 595 heater lamps: aluminum or steel with testem coating 595 Halter O heating roller quette heater Quette heater O Silicon cubber This system sould ced warmap time to a minute specords Sri 23°C to Mote Witnessed & Audit O hate invented by the the Date	heated by 595 Watt quarte lamps. Using an external heated met
The Solowing System was prototyped with 2 595 heater lamps: aluminum or steel with teston coating 595 Watter O heating roller querte heater Querte heater O Silicon subbet I ower pressure roller (un bented) This system sociaced warmap time to 2 minutes sprecords Sri 23°C to 160°C. Witnessed & badersoloddy me, Date Invented by the time Man Man Market Date	roller climinates a great portion of the thermal time delay in the sys.
Aluminum or steel with toslow coating 595 Haller O heating roller grants heater O Silicon rubber Jower pressure roller (un heated) This system social ced warmap time to I minutes for seconds Sri 22°C to 1860 C. Witnessed & Date Invented by Market Date	The following system was prototyped with 2 595 heater lamps:
Leater Silicon Fubber Jower pressure roller Lanhared Manhared This system rolled warmap time to 2 minutes spreads for To Page No. Witnessed & Dederstond by me, Date Invented by John Manhared This system roller This system roller Invented by John Manhared To Page No.	
Leater Silicon Fubber Jower pressure roller Lanhared Manhared This system rolled warmap time to 2 minutes spreads for To Page No. Witnessed & Dederstond by me, Date Invented by John Manhared This system roller This system roller Invented by John Manhared To Page No.	695 Watter (0) heating roller
Leater 593 (D) Silicon rubber Jower pressure roller Lunhared Munhared This system rolled warmap time to 2 minutes spreads from 23°C, to Major. To Page No. Witnessed & Dederglobally me, Date Invented by Market Market Date	quarte heater
Jower pressure roller Jower pressure roller (un heard) This system focused warmup time to 2 minutes sprecords for 32°C, to 180°C. Witnessed & baderstoods war, Date invented by the Market Date	upper pression
This system for warmup time to 2 minutes spreconds for 32°C, to 180°C. Witnessed & baders today me, Date invented by the Mark Mark to Date	silicon rubber
This system for warmup time to 2 minutes spreconds for 32°C, to 180°C. Witnessed & baders today me, Date invented by the Mark Mark to Date	- roller
Witnessed & bederstond by me, Date Invented by Mark Mark Mark Date	(un heated)
Witnessed & bederstond by me, Date Invented by Mark Mark Mark Date	This system sociaced warman time to 2 minutes so seconds Son
May land the second	azec, to Alkorc. To Page No.
" por front.	May 6 and 1 may 20013 for
	" pre five.

thermal loading. Additionally there is no decrease in the gloss of suid toner from one page to the neet. The temperature of the Sucing system recovers instantly at an when the thermal load exits the nip of the suising press rollers. Typical The ried through of present system shows considerable rang. I never recovers unit to the through of mer system. The condition of jeb. Rid through of new system. The rang in the ride through causes the gloss of the function to decrease with every page. To page No. 3.	38 Book N	`TI	TLE				
quick response to thermal loads as well good ride through as sustained thermal loading. Additionally there is no decrease in the gloss of sound tonse from one page to the neet. The temperature of the Eucling system recovers instantly as an when the thermal load exits the nip of the Eucling press rollers. typical The right through of present system shows construct mag. 1) temporal the right through of present system shows construct mag. 1) rever recovers untilled. Rid through of new system Rid through of new system report 100 Rid through of new system To page in the right through causes the gloss of the fined tone. to decrease with every page.	From Page No37		· · · · · ·				
quick response to thermal loads as well good ride through as sustained thermal loading. Additionally there is no decrease in the gloss of sound tonse from one page to the neet. The temperature of the Eucling system recovers instantly as an when the thermal load exits the nip of the Eucling press rollers. typical The right through of present system shows construct mag. 1) temporal the right through of present system shows construct mag. 1) rever recovers untilled. Rid through of new system Rid through of new system report 100 Rid through of new system To page in the right through causes the gloss of the fined tone. to decrease with every page.	Experiments show	some addi	tional_i	mportant	benstit	These	are: very
thermal loading. Additionally there is no decrease in the gloss of suid toner from one page to the next. The temperature of the Susing system recovers instently at an when the thermal load exits the nip of the suising press rollers. Typical The right through of present system shows considerable ray. I never recovers untilled. The right through of our system to the state of the suising page count. Rich through of our system to say the state of the suising page count. The ray in the ride through causes the gloss of the fined tone to decrease with every page. To page No. 3							
tonse from one page to the neet. The temperature of the suring system recovers instently at an when the thermal load exits the nip of the suring press. Tupical The nied through of present system shows considered mag. The never recovers until cond of jub. Rid through of new system Rid through of new system Rid through of new system The mag in the ride through causes the first of the fined term to decrease with every page. To page No. 2					•		
instently as an when the thermal load exits the nip of the susing pression rollers. typical The riad through of present system shows considerable soap. I have recovers until 1700 cond of jab. never recovers until 1700 cond of jab. Ride through of new system terf 180 cond of 180 cond The sag in the ride through causes the force of the fined true to decrease with every page. To Page No. 2	, –	•	•				
typical The ried through of present system shows considerable song. (1) temporal through of present system shows considerable song. (1) never recovers until cond of jab. Rid through of new system remarks Rid through of new system temporal system The sag in the ried through causes the gloss of the function to decrease with every page. To Page No. 2							
typical The nied through of present system. Shows considerable stage. I never recovers untilled conduct jeb. 120 conduct jeb. Rich through of new system 121 sq. 12 sq.	A.	the theri	malload.	exits.	the nil	e at the	gustag puezzi
Rile through of new system The sage in the ride through causes the gloss of the fused town to decrease with every page. To Page No. 3			:			. • •	
never recovers until 1000 Ride through of new system 1 3 3 4 5 6 7 4 2 10 11 12 13 19 15 16 17 18 13 20 page count The sage in the ride through causes the gloss of the fined town to decrease with every page. To Page No. 3	typical The ried through	of present my	stem sho	ws consid	note sag.		· · · · · · · · · · · · · · · · · · ·
Rib through of new system 1 3 3 4 5 6 7 4 7 10 11 12 13 19 15 16 17 18 19 20 page count The reg in the rise through causes the gloss of the fined town to decrease with every page. To Page No. 3	temb			· · · · · · · · · · · · · · · · · · ·	er ere Eur		
Rib through of new system 1 3 3 4 5 6 7 4 7 10 11 12 13 19 15 16 17 18 19 20 page count The reg in the rise through causes the gloss of the fined town to decrease with every page. To Page No. 3	170%					end of j	eovers until
Rid through of new system 188 118 The rang in the ride through causes the gloss of the fined toner to decrease with every page. To Page No. 3				لورين نورينون			
Rid through of new system 188 118 The rang in the ride through causes the gloss of the fined toner to decrease with every page. To Page No. 3	1 3 4 5 6	67 \$ 9 10	11 13 13 /1	15 16 17	13 17 20	*** DARE COM	ii. M
The sag in the ride through causes the gloss of the funed town to decrease with every page. To Page No. 3							·- · · · · · · · · · · · · · · · · · ·
The sag in the ride through causes the gloss of the funed town to decrease with every page. To Page No. 3	Rid through of m	w system	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
The say in the ride through causes the gloss of the fined town to decrease with every page. To Page No. 3	temp 188		. :			··· · · · · · · · · · · · · · · · · · ·	
The say in the ride through causes the gloss of the fined town to decrease with every page. To Page No. 3	I I		·		<u> </u>		
The say in the ride through causes the gloss of the fined town to decrease with every page. To Page No. 3	1 3 3 4 5 6	7 4 7 10	11 12 /3 14	15 16 17		DHE COURT	••
To Page No. 3	The see in the sile to	_				• •	decen
	with every page.				··· · · · · · · · · · · · · · · · · ·		
	· ·	•	· · · · · · · · · · · · · · · · · · ·				
Recorded by Jake Hust	Witnessed & Understood by ma.	Date	Invented by	W/7/		Date	To Page No. 3
- (m - 1)			Recorded b	Wate H	ns		
Com. 12/12/Full 2.500	Aur. 12/02/Farm 2.00)			(20-2)			

. 3

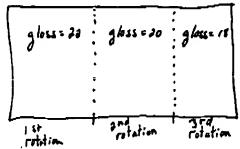
From Page No. 39

This system also shows that the teston coatings and silicon rubber of the pressure rollers can operate reliably at temperatures in excess of 210°C. Tests will be conducted with the surface of the external heating roller at 220°C, 230°C, and 240°C prints 100,000 propo.

as well as many other designs

One problem with this design is that the silicon rubber and teston Coatings are isulators and are poor heat conductors as well as possess a small capacity to store heat energy at the surface. This causes the gloss of the Sused toner to decrease over the Sused page with each full rotation of the pressure rollers.

- In example for a ledger page the gloss for a solid red secondary actor a



fortunately with the external heater the system recovers for the next page.

				To Page No.
Witnessed & Understood by me,	Date	Recorded by Marke Hand	Date	

40	Book No	TITLE		
From Page No. 3°	1			
To comb	at the ptoblem	of gloss	sag within	the page it is
necessary	to improve th	s amount of	heat that can	be carried into the
nip of t	he fuser press	nes collec	4.	"" 17"" at 77
	(1) http://	M/C ./. R.F.E/\$ L	a. Verg. Thin!	metal layer at th
Surtact of	t The upper	pressurere	ller should d	o the trick. This
idea is	detailed on pa	y 45 of t	his note book	
	;		· · · · · · · · · · · · · · · · · · ·	
a. mototy	n of this system	n was built	with the for	llowing:
(system by	ilt to test resu	lienes d' vile	and the all to	
			sov 1	lon to 220°C externs
	500W		1.03" thich /	inch die steel 0.01" teg
		10 P	and the second s	
	• • • •	190°	mo's - exten	I heaten does not a
			word when w	I heater does not a writer off, power is at rotating
	100W	-160	'¢	
a spanijaja	4.4			· · · · · · · · · · · · · · · · · · ·
45 d	44,000 pages	- have been	printed on als	we system with w
failuses. a m	und prototype	in which to	external heat	in controlled of a
a 240°C	will be const	- 7-1		
		100000		
	- 64,000 rops	printed wit	a no problemo	
, ,	240,000 pogs	printed on	two formers wil	h no moblem
/	300,000 - 100,00	mile	two firms w	the profine To Page No
tnessed & Understo	ood by me, Date	invented t	1 / / / / v	Date 10 Page No
		Recorded	my /	
			Mark Hust	1
Flor. 12/92(Fem 2.93)				

		_		
		puor	·	
		·		
our no. de	gration of	fuser re	ller mate	rial when
adlia mil	L 240%	histi ad	1.	31
- W - W - W - W - W - W - W - W - W - W			M	ю. А
liffere to fu	sers!		**************************************	
<u> </u>			:	
			·	
ly for pres	ent_system	is as foll	ous	
.T/		· · · · · · · · · · · · · · · · · · ·	· - i	* *** **
R resistance	Thermal G	pacity of m	When contino	
Je se Ze	Tomperature	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	
厅门下了	non la			
-				
_]		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
- Josepher L. I			. :	
	1.1.4.			
that the	mys can	- sesistan	s_of_the_c	repleant
energy trong	port from	the lines		
selle sias	iliza the Se	crease to	6 the	wait d
	U			-,
my energy	diedly to	the sur	one of the	user
7	عرد المعالمين الماد	nslaw —		
	<u> </u>	· · · · · · · · · · · · · · · · · · ·	у 	
> to false	+ ester	1 roller	here,	
- Fresh				
	-			
•	1 1 1		1 1 1	To Page No.
Date	Invented by	2/15/7	Date	
Date	Invented by	Mark Just	Pate	
	thermal strace thermal strace thermal strace that the energy trans wing energy	lefferent fusers where thermal can thermal straight from the paper bor convicenment of the high the converge transport from	covering with 240°C heating not before I fusers thermal capacity of many thermal capacity of me that the high them resistant analyst from the finer with register the finer with a significantly decreases to the surp make them resistant the surp make them resistant the finer with the surp with them resistant the surp make them the surp make them the surp make them the surp make them the surp make the sur	dy for present system is as follows thermal capacity of rabber conting thermal capacity of rabber conting to the first paper load convicenment I losses that the high them resistance of the convergy transport from the first roller significantly electronics the them I giz energy directly to the surface of the property of the

	Project No)	•
42	Book f		TITLE
From Page No)	·	
	with rollers bute	•	•
	A Want		•
	•		63
		K11	
		TW	
	wpp (杰克特	T's to "5 TO external heater rader against apper roller
	M12 ($\mathbb{U} \sqcup \mathbb{U}$	Sel I mai 7 11
	Г	-Aco	The state of the same
		4/1,3	
	burn (1)7547	
			the themal load of soper as it travels
			to is themod board of paper as it transless
			and fush pressure when
			Re is coupling setimen upper and lawer
			Re is coupling between upper and lawer rollers
			•
	Men	w HPC	-0405-1459-NO2 details temperature
			experiment.
		•	•
	•		
•			
			and the second s
		•	
			the second of th
		•	
			• •
	er e e		- ·
	•		
			To Page No
itnessed & Un	derstood by me,	Date	Invented by M. C. Date
		Ì	1 yave Hus
•			Recarded by
			yare in the
Nov. 12/83 Fee	m 2 02)		